

coexpression of beta-adrenergic receptor kinase 2 and \*\*\*beta\*\*\* -  
\*\*\*arrestin\*\*\* \*\*\*2\*\*\* in xenopus oocytes.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Oct 31) 272 (44)  
27605-11.

Journal code: 2985121R. ISSN: 0021-9258.

L1 ANSWER 39 OF 49 MEDLINE

TI A central role for beta-arrestins and clathrin-coated vesicle-mediated  
endocytosis in beta2-adrenergic receptor resensitization. Differential  
regulation of receptor resensitization in two distinct cell types.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Oct 24) 272 (43)  
27005-14.

Journal code: 2985121R. ISSN: 0021-9258.

L1 ANSWER 40 OF 49 MEDLINE

TI Synergistic regulation of beta2-adrenergic receptor sequestration:  
intracellular complement of beta-adrenergic receptor kinase and  
beta-arrestin determine kinetics of internalization.

SO MOLECULAR PHARMACOLOGY, (1997 May) 51 (5) 800-8.

Journal code: 0035623. ISSN: 0026-895X.

L1 ANSWER 41 OF 49 MEDLINE

TI Expression and regulation of G protein-coupled receptor kinase 5 and  
beta-arrestin-1 in rat thyroid FRTL5 cells.

SO THYROID, (1996 Dec) 6 (6) 627-31.

Journal code: 9104317. ISSN: 1050-7256.

L1 ANSWER 42 OF 49 MEDLINE

TI Localisation of a gene for central areolar choroidal dystrophy to  
chromosome 17p.

SO HUMAN MOLECULAR GENETICS, (1996 May) 5 (5) 705-8.

Journal code: 9208958. ISSN: 0964-6906.

L1 ANSWER 43 OF 49 MEDLINE

TI Effect of different G protein-coupled receptor kinases on phosphorylation  
and desensitization of the alpha1B-adrenergic receptor.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Mar 1) 271 (9)  
5049-58.

Journal code: 2985121R. ISSN: 0021-9258.

L1 ANSWER 44 OF 49 MEDLINE

TI Phosphorylation and desensitization of the human beta 1-adrenergic  
receptor. Involvement of G protein-coupled receptor kinases and  
cAMP-dependent protein kinase.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1995 Jul 28) 270 (30)  
17953-61.

Journal code: 2985121R. ISSN: 0021-9258.

L1 ANSWER 45 OF 49 MEDLINE

TI Assignment of the beta-arrestin 1 gene (ARRB1) to human chromosome  
11q13.

SO GENOMICS, (1994 Nov 1) 24 (1) 169-71.

Journal code: 8800135. ISSN: 0888-7543.

L1 ANSWER 46 OF 49 MEDLINE

TI Chromosome mapping of the human arrestin (SAG), \*\*\*beta\*\*\* -  
\*\*\*arrestin\*\*\* \*\*\*2\*\*\* (ARRB2), and beta-adrenergic receptor kinase  
2 (ADRBK2) genes.

SO GENOMICS, (1994 Sep 1) 23 (1) 286-8.

Journal code: 8800135. ISSN: 0888-7543.

L1 ANSWER 47 OF 49 MEDLINE

TI Cone arrestin identified by targeting expression of a functional family.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1994 Feb 11) 269 (6)  
4613-9.

Journal code: 2985121R. ISSN: 0021-9258.

L1 ANSWER 48 OF 49 MEDLINE

TI Expression of beta-arrestins and beta-adrenergic receptor kinases in the  
failing human heart.

SO CIRCULATION RESEARCH, (1994 Feb) 74 (2) 206-13.

Journal code: 0047103. ISSN: 0009-7330.

L1 ANSWER 49 OF 49 MEDLINE

TI Beta-adrenergic receptor kinase-2 and \*\*\*beta\*\*\* - \*\*\*arrestin\*\*\* -  
\*\*\*2\*\*\* as mediators of odorant-induced desensitization.

SO SCIENCE, (1993 Feb 5) 259 (5096) 825-9.

Journal code: 0404511. ISSN: 0036-8075.

=> log y

COST IN U.S. DOLLARS

SINCE FILE TOTAL  
ENTRY SESSION

FULL ESTIMATED COST

3.21 3.42

STN INTERNATIONAL LOGOFF AT 09:26:27 ON 27 NOV 2002

J. Biol. Chem

267: 17882 -

\*\*\*\*\* Welcome to STN International \*\*\*\*\*  
\*\*\*\*\* STN Columbus \*\*\*\*\*  
FILE 'HOME' ENTERED AT 09:25:14 ON 27 NOV 2002

=> file medline			
COST IN U.S. DOLLARS		SINCE FILE	TOTAL
	ENTRY	SESSION	
FULL ESTIMATED COST		0.21	0.21

FILE 'MEDLINE' ENTERED AT 09:25:27 ON 27 NOV 2002

FILE LAST UPDATED: 23 NOV 2002 (20021123/UP). FILE COVERS 1958 TO DATE

On June 9, 2002, MEDLINE was reloaded. See HELP RLOAD for details.

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=> s beta arrestin 2
    436593 BETA
      1197 ARRESTIN
    2517207 2
L1    49 BETA ARRESTIN 2
      (BETA(W)ARRESTIN(W)2)

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=> d 1-49 ti so

LI ANSWER 1 OF 49 MEDLINE  
TI Selective ligand-induced stabilization of active and desensitized  
parathyroid hormone type 1 receptor conformations.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Oct 11) 277 (41)  
88524-30.  
Journal code: 2985121R. ISSN: 0021-9258.

ANSWER 2 OF 49 MEDLINE  
Regulation of mu-opioid receptors, G-protein-coupled receptor kinases and  
\*\*\*beta\*\*\* - \*\*\*arrestin\*\*\* \*\*\*2\*\*\* in the rat brain after chronic  
opioid receptor antagonism.  
NEUROSCIENCE, (2002) 112 (2) 345-53.  
Journal code: 7605074. ISSN: 0306-4522.

1 ANSWER 3 OF 49 MEDLINE  
 1 G protein-coupled receptor kinases, \*\*\*beta\*\*\* - \*\*\*arrestin\*\*\* -  
 \*\*\*2\*\*\* and associated regulatory proteins in the human brain:  
 postmortem changes, effect of age and subcellular distribution.  
 O BRAIN RESEARCH. MOLECULAR BRAIN RESEARCH, (2002 May 30)  
 01 (1-2) 39-51.  
 Journal code: 8908640. ISSN: 0169-328X.

1 ANSWER 4 OF 49 MEDLINE  
1 Characterization of lymphocyte beta 2-adrenoceptor signalling in patients  
with left ventricular volume overload disease.  
O CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND  
PHYSIOLOGY, (2002 Mar) 29 (3)  
181-8.  
Journal code: 0425076. ISSN: 0305-1870.

ANSWER 5 OF 49 MEDLINE  
Molecular components of tolerance to opiates in single hippocampal neurons.  
MOLECULAR PHARMACOLOGY, (2002 Jan) 61 (1) 55-64.  
Journal code: 0035623. ISSN: 0026-895X.

ANSWER 6 OF 49 MEDLINE  
Myocardial distribution and regulation of GRK and beta-arrestin isoforms  
in congestive heart failure in rats.  
AMERICAN JOURNAL OF PHYSIOLOGY. HEART AND  
CIRCULATORY PHYSIOLOGY, (2001  
Dec) 281 (6) H2490-9.  
Journal code: 100901228. ISSN: 0363-6135.

ANSWER 7 OF 49 MEDLINE  
Nociceptin-induced internalization of the ORL1 receptor in human

neuroblastoma cells.  
SO NEUROREPORT, (2001 Oct 8) 12 (14) 3159-63.  
Journal code: 9100935. ISSN: 0959-4965.

LI ANSWER 8 OF 49 MEDLINE  
TI Cutting edge: Differential regulation of chemoattractant receptor-induced  
degranulation and chemokine production by receptor phosphorylation.  
SO JOURNAL OF IMMUNOLOGY, (2001 Oct 1) 167 (7) 3559-63.  
Journal code: 2985117R. ISSN: 0022-1767.

L1 ANSWER 9 OF 49 MEDLINE  
 TI Activation and targeting of extracellular signal-regulated kinases by  
 beta-arrestin scaffolds.  
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF  
 THE UNITED STATES OF  
 AMERICA, (2001 Feb 27) 98 (5) 2449-54.  
 Journal code: 7505876. ISSN: 0027-8424.

ANSWER 10 OF 49 MEDLINE  
Molecular determinants underlying the formation of stable intracellular G protein-coupled receptor-beta-arrestin complexes after receptor endocytosis\*.  
JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Jun 1) 276 (22) 9452-60.  
Journal code: 2985121R. ISSN: 0021-9258.

ANSWER 11 OF 49 MEDLINE  
Threonine 180 is required for G-protein-coupled receptor kinase 3- and  
\*\*\*beta\*\*\* - \*\*\*arrestin\*\*\* -mediated desensitization of  
the mu-opioid receptor in Xenopus oocytes.  
JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Feb 16) 276 (7)  
894-900.  
Journal code: 2985121R. ISSN: 0021-9258.

1 ANSWER 12 OF 49 MEDLINE  
I Control of the cardiac muscarinic K+ channel by \*\*\*beta\*\*\* -  
\*\*\*arrestin\*\*\* \*\*\*?\*\*\*  
O JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Apr 13) 276 (15)  
691-7.  
Journal code: 2985121R. ISSN: 0021-9258.

ANSWER 13 OF 49 MEDLINE  
Low affinity of beta1-adrenergic receptor for beta-arrestins explains the resistance to agonist-induced internalization.  
LIFE SCIENCES, (2001) 68 (19-20) 2251-7.  
Journal code: 0375521. ISSN: 0024-3205.

ANSWER 14 OF 49 MEDLINE  
Changes in the expression of G protein-coupled receptor kinases and  
\*\*\*beta\*\*\* - \*\*\*arrestin\*\*\* \*\*\*2\*\*\* in rat brain during opioid  
tolerance and supersensitivity.  
JOURNAL OF NEUROCHEMISTRY, (2001 Apr) 77 (2) 486-92.  
Journal code: 2985190R. ISSN: 0022-3042.

ANSWER 15 OF 49 MEDLINE  
Visualizing differences in ligand-induced beta-arrestin-GFP interactions  
and trafficking between three recently characterized G protein-coupled  
receptors.  
JOURNAL OF NEUROCHEMISTRY, (2001 Apr) 77 (2) 476-85.  
Journal code: 2985190R. ISSN: 0022-3042.

ANSWER 16 OF 49 MEDLINE  
beta-Arrestin 1 and 2 differentially regulate heptahelical receptor  
signaling and trafficking.  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF  
THE UNITED STATES OF  
AMERICA, (2001 Feb 13) 98 (4) 1601-6.  
Journal code: 7505876. ISSN: 0027-8424.

ANSWER 17 OF 49 MEDLINE  
Expression of beta-arrestins in toxic and cold thyroid nodules.

- SO FEBS LETTERS, (2000 Dec 15) 486 (3) 208-12.  
Journal code: 0155157. ISSN: 0014-5793.
- L1 ANSWER 18 OF 49 MEDLINE  
TI Mu-opioid receptor desensitization by \*\*\*beta\*\*\* - \*\*\*arrestin\*\*\* - \*\*\*2\*\*\* determines morphine tolerance but not dependence.  
SO NATURE, (2000 Dec 7) 408 (6813) 720-3.  
Journal code: 0410462. ISSN: 0028-0836.
- L1 ANSWER 19 OF 49 MEDLINE  
TI \*\*\*Beta\*\*\* - \*\*\*arrestin\*\*\* \*\*\*2\*\*\* : a receptor-regulated MAPK scaffold for the activation of JNK3.  
SO SCIENCE, (2000 Nov 24) 290 (5496) 1574-7.  
Journal code: 0404511. ISSN: 0036-8075.
- L1 ANSWER 20 OF 49 MEDLINE  
TI Interaction with beta-arrestin determines the difference in internalization behavior between beta1- and beta2-adrenergic receptors.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Sep 15) 275 (37) 29082-90.  
Journal code: 2985121R. ISSN: 0021-9258.
- L1 ANSWER 21 OF 49 MEDLINE  
TI The interaction of beta-arrestin with the AP-2 adaptor is required for the clustering of beta 2-adrenergic receptor into clathrin-coated pits.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jul 28) 275 (30) 23120-6.  
Journal code: 2985121R. ISSN: 0021-9258.
- L1 ANSWER 22 OF 49 MEDLINE  
TI Regulation and intracellular trafficking pathways of the endothelin receptors.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jun 9) 275 (23) 17596-604.  
Journal code: 2985121R. ISSN: 0021-9258.
- L1 ANSWER 23 OF 49 MEDLINE  
TI Peptide-in-groove interactions link target proteins to the beta-propeller of clathrin.  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (2000 Feb 1) 97 (3) 1096-100.  
Journal code: 7505876. ISSN: 0027-8424.
- L1 ANSWER 24 OF 49 MEDLINE  
TI beta-arrestin differentially regulates the chemokine receptor CXCR4-mediated signaling and receptor internalization, and this implicates multiple interaction sites between beta-arrestin and CXCR4.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jan 28) 275 (4) 2479-85.  
Journal code: 2985121R. ISSN: 0021-9258.
- L1 ANSWER 25 OF 49 MEDLINE  
TI Enhanced morphine analgesia in mice lacking \*\*\*beta\*\*\* - \*\*\*arrestin\*\*\* \*\*\*2\*\*\*.  
SO SCIENCE, (1999 Dec 24) 286 (5449) 2495-8.  
Journal code: 0404511. ISSN: 0036-8075.
- L1 ANSWER 26 OF 49 MEDLINE  
TI The rat gonadotropin-releasing hormone receptor internalizes via a beta-arrestin-independent, but dynamin-dependent, pathway: addition of a carboxyl-terminal tail confers beta-arrestin dependency.  
SO ENDOCRINOLOGY, (2000 Jan) 141 (1) 299-306.  
Journal code: 0375040. ISSN: 0013-7227.
- L1 ANSWER 27 OF 49 MEDLINE  
TI Involvement of G protein-coupled receptor kinases and arrestins in desensitization to follicle-stimulating hormone action.  
SO MOLECULAR ENDOCRINOLOGY, (1999 Sep) 13 (9) 1599-614.  
Journal code: 8801431. ISSN: 0888-8809.
- L1 ANSWER 28 OF 49 MEDLINE  
TI Ultrastructural localization of beta-arrestin-1 and -2 in rat lumbar spinal cord.  
SO JOURNAL OF COMPARATIVE NEUROLOGY, (1999 Oct 4) 412 (4) 649-55.  
Journal code: 0406041. ISSN: 0021-9967.
- L1 ANSWER 29 OF 49 MEDLINE  
TI Agonist-dependent desensitization of the kappa opioid receptor by G protein receptor kinase and beta-arrestin.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Aug 20) 274 (34) 23802-7.  
Journal code: 2985121R. ISSN: 0021-9258.
- L1 ANSWER 30 OF 49 MEDLINE  
TI High efficiency method for gene transfer in normal pituitary gonadotropes: adenoviral-mediated expression of G protein-coupled receptor kinase 2 suppresses luteinizing hormone secretion.  
SO ENDOCRINOLOGY, (1999 Jun) 140 (6) 2562-9.  
Journal code: 0375040. ISSN: 0013-7227.
- L1 ANSWER 31 OF 49 MEDLINE  
TI Distinct domains of the CB1 cannabinoid receptor mediate desensitization and internalization.  
SO JOURNAL OF NEUROSCIENCE, (1999 May 15) 19 (10) 3773-80.  
Journal code: 8102140. ISSN: 1529-2401.
- L1 ANSWER 32 OF 49 MEDLINE  
TI Role of arrestins in endocytosis and signaling of alpha2-adrenergic receptor subtypes.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Apr 16) 274 (16) 11253-9.  
Journal code: 2985121R. ISSN: 0021-9258.
- L1 ANSWER 33 OF 49 MEDLINE  
TI The absence of a direct correlation between the loss of [D-Ala2, MePhe4, Gly5-ol]Enkephalin inhibition of adenylyl cyclase activity and agonist-induced mu-opioid receptor phosphorylation.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Apr 2) 274 (14) 9207-15.  
Journal code: 2985121R. ISSN: 0021-9258.
- L1 ANSWER 34 OF 49 MEDLINE  
TI Real-time visualization of the cellular redistribution of G protein-coupled receptor kinase 2 and \*\*\*beta\*\*\* - \*\*\*arrestin\*\*\* \*\*\*2\*\*\* during homologous desensitization of the substance P receptor.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Mar 12) 274 (11) 7565-9.  
Journal code: 2985121R. ISSN: 0021-9258.
- L1 ANSWER 35 OF 49 MEDLINE  
TI Differential expression of alternative splice variants of beta-arrestin-1 and -2 in rat central nervous system and peripheral tissues.  
SO EUROPEAN JOURNAL OF NEUROSCIENCE, (1998 Aug) 10 (8) 2607-16.  
Journal code: 8918110. ISSN: 0953-816X.
- L1 ANSWER 36 OF 49 MEDLINE  
TI Agonist induced homologous desensitization of mu-opioid receptors mediated by G protein-coupled receptor kinases is dependent on agonist efficacy.  
SO MOLECULAR PHARMACOLOGY, (1998 Oct) 54 (4) 704-11.  
Journal code: 0035623. ISSN: 0026-895X.
- L1 ANSWER 37 OF 49 MEDLINE  
TI Potential regulatory roles for G protein-coupled receptor kinases and beta-arrestins in gonadotropin-releasing hormone receptor signaling.  
SO ENDOCRINOLOGY, (1998 Apr) 139 (4) 1781-8.  
Journal code: 0375040. ISSN: 0013-7227.
- L1 ANSWER 38 OF 49 MEDLINE  
TI Mu and delta opioid receptors are differentially desensitized by the